



264974be.app
SEQUENCE LISTING

<110> CHOO, YEN
KLUG, AARON
ISALAN, MARK

<120> NUCLEIC ACID BINDING POLYPEPTIDE LIBRARY

<130> 71278/264974/BET

<140> 09/424,482

<141> 2000-02-29

<150> 09/424,482

<151> 1999-11-23

<150> PCT/GB98/01510

<151> 1998-05-26

<150> GB 9710809.6

<151> 1997-05-23

<160> 114

<170> PatentIn version 2.1

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gnnncggcg

9

D

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9

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 Xaa Xaa Cys Xaa Xaa Xaa Xaa Xaa Cys Xaa Xaa Xaa Xaa Xaa Xaa
 1 5 10 15
 Xaa Xaa Xaa Xaa Xaa Xaa Xaa His Xaa Xaa Xaa Xaa Xaa Xaa
 20 25 30

D

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2-4 residues

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<223> Positions 8-10 may vary in length from
2-3 residues

<400> 5

Xaa Cys Xaa Xaa Xaa Xaa Cys Xaa Xaa Xaa Phe Xaa Xaa Xaa Xaa Xaa
1 5 10 15

Leu Xaa Xaa His Xaa Xaa Xaa His
20

<210> 6

<211> 4

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Thr Gly Glu Lys
1

<210> 7

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<400> 7

Thr Gly Glu Lys Pro
1 5

<210> 8

<211> 26

<212> PRT

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<223> Description of Artificial Sequence: Consensus
structure sequence

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Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Gln Lys Ser Asp
1 5 10 15

Leu Val Lys His Gln Arg Thr His Thr Gly
20 25

<210> 9

<211> 29

<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Consensus
structure sequence

<400> 9

Pro Tyr Lys Cys Ser Glu Cys Gly Lys Ala Phe Ser Gln Lys Ser Asn
1 5 10 15

Leu Thr Arg His Gln Arg Ile His Thr Gly Glu Lys Pro
20 25

<210> 10

<211> 6

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<400> 10

Met Ala Glu Glu Lys Pro
1 5

<210> 11

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<212> DNA

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9

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<212> DNA

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<223> Description of Artificial Sequence: Zinc finger -DNA
interaction sequence

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cgcccacgc

9

<210> 13

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<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Zinc finger-DNA
interaction sequence

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acgcccacg

9

<210> 14

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<212> DNA

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<223> Description of Artificial Sequence: Zinc finger-DNA
interaction sequence

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gcgtgggcg

9

D

<210> 15
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 LIB-B Zinc finger

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 1 5 10 15
 Arg Phe Ser Arg Ser Asp Glu Leu Thr Arg His Ile Arg Ile His Thr
 20 25 30
 Gly Gln Lys Pro
 35

<210> 17
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D

LIB-B Zinc finger 2

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<222> (18)

<223> Any amino acid

<400> 17

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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Phe | Gln | Cys | Arg | Ile | Cys | Met | Arg | Asn | Phe | Ser | Arg | Ser | Asp | Asp | Leu |
| 1 | | | | 5 | | | | 10 | | | | | | 15 | |

| | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Xaa | His | Ile | Arg | Thr | His | Thr | Gly | Glu | Lys | Pro |
| | | | 20 | | | | | 25 | | | |

<210> 18

<211> 28

<212> PRT

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<222> (12)

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<400> 18

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Phe | Ala | Cys | Asp | Ile | Cys | Gly | Arg | Lys | Phe | Ala | Xaa | Ser | Xaa | Asp | Arg |
| 1 | | | | 5 | | | | 10 | | | | | | 15 | |

| | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Lys | Arg | His | Thr | Lys | Ile | His | Leu | Arg | Gln | Lys | Asp |
| | | | 20 | | | | 25 | | | | |

<210> 19

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D

finger 3

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 Phe Ala Cys Asp Ile Cys Gly Arg Lys Phe Ala Xaa Xaa Xaa Xaa Arg
 1 5 10 15

 Lys Arg His Thr Lys Ile His Leu Arg Gln Lys Asp
 20 25

<210> 20
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 peptide

<400> 20
 Arg Leu Glu Tyr
 1

<210> 21
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 peptide

<400> 21
 Arg Ser Glu Asp
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<210> 22
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D

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<223> Description of Artificial Sequence: Zinc finger
peptide

<400> 22

Arg His Thr His
1

<210> 23

<211> 4

<212> PRT

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<223> Description of Artificial Sequence: Zinc finger
peptide

<400> 23

Arg Ser Ser Glu
1

<210> 24

<211> 4

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<223> Description of Artificial Sequence: Zinc finger
peptide

<400> 24

Arg Ser Ser Ala
1

<210> 25

<211> 4

<212> PRT

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peptide

<400> 25

Gln Val Thr Thr

1

<210> 26
<211> 4
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peptide

<400> 26
Gln Ser Gly Asp
1

<210> 27
<211> 4
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peptide

<400> 27
Gln Leu Ala Thr
1

<210> 28
<211> 4
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peptide

<400> 28
Gln Asp Ala His
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<210> 29
<211> 4
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D

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<223> Description of Artificial Sequence: Zinc finger
peptide

<400> 29

Gln Arg Ala Ser
1

<210> 30

<211> 4

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peptide

<400> 30

Gln Ser Thr Ser
1

<210> 31

<211> 4

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peptide

<400> 31

Ser Ser Gly Asp
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<210> 32

<211> 4

<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Zinc finger
peptide

<400> 32
Ser Ala Ser Ala
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<210> 33
<211> 4
<212> PRT
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peptide

<400> 33
Asn Ser Gly Asp
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<210> 34
<211> 4
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Leu Val Gln Asn
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<210> 35
<211> 4
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peptide

<400> 35
Thr Gly Ala Ser
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<210> 36

<211> 4
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peptide

<400> 36
Thr Pro Ser Gly
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<210> 37
<211> 4
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<400> 37
Thr Gln Thr Ala
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<210> 38
<211> 4
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peptide

<400> 38
Thr Ser Ala Ala
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<210> 39
<211> 4
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peptide

<400> 39

Asp Thr Ser Val

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<210> 40

<211> 4

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Asp Ala Ser Thr

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Asp Ala Ser Ala

1

<210> 42

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<400> 42

Asp Thr Ser Ser

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Arg Asn His Asp
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<210> 44
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Arg Ser Thr Asp
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Arg Ser Thr Asp
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<400> 46

Ser Arg His Ser
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<210> 47

<211> 4

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Arg Asn Ser Thr
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<210> 48

<211> 4

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<400> 48

Arg Thr Ser Thr
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<210> 49

<211> 4

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<400> 49

Thr Arg Tyr Ser

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<210> 50
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<400> 50
 Arg Ala Gln Asn
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<210> 51
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<400> 51
 Gln Ala Ala Thr
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<210> 52
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<400> 52
 Gln Gly Thr Asn
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<210> 53
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<213> Artificial Sequence

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peptide

<400> 53

Thr Ser Arg Asp

1

<210> 54

<211> 4

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peptide

<400> 54

Gln Arg Gly Ala

1

<210> 55

<211> 4

<212> PRT

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<220>

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peptide

<400> 55

Gln Ser Thr Thr

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<210> 56

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

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peptide

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Thr Ser Ser Ser
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<210> 57
<211> 4
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<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Zinc finger
peptide

<400> 57
Ser Ser Ser Thr
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<210> 58
<211> 4
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Zinc finger
peptide

<400> 58
Thr Ile Ser Asn
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<210> 59
<211> 4
<212> PRT
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<220>
<223> Description of Artificial Sequence: Zinc finger
peptide

<400> 59
Thr Ser Thr Ala
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<210> 60

<211> 4
<212> PRT
<213> Artificial Sequence

<220>
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peptide

<400> 60
Thr Ser Ser Leu
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<210> 61
<211> 4
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Zinc finger
peptide

<400> 61
Thr Ser Ser Ile
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<210> 62
<211> 4
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Zinc finger
peptide

<400> 62
Thr Ser Asn Ser
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<210> 63
<211> 4
<212> PRT
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<220>
<223> Description of Artificial Sequence: Zinc finger

peptide

<400> 63

Gly Ser Asn Asp

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<210> 64

<211> 4

<212> PRT

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<220>

<223> Description of Artificial Sequence: Zinc finger
peptide

<400> 64

Thr Thr Ser Ser

1

<210> 65

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

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peptide

<400> 65

Thr Ala Gly Ser

1

<210> 66

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

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peptide

<400> 66

Thr Thr Ser Ser

1

<210> 67
<211> 4
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<220>
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peptide

<400> 67
Thr Ser Ser Ala
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<210> 68
<211> 4
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peptide

<400> 68
Leu Ser Thr Thr
1

<210> 69
<211> 4
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peptide

<400> 69
Leu Ser Ser Thr
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<210> 70
<211> 4
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peptide

<400> 70
Asp Pro His Asn
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<210> 71
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<220>
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peptide

<400> 71
His Ser Lys Ser
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<210> 72
<211> 4
<212> PRT
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<220>
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peptide

<400> 72
His Arg Gln Asn
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<210> 73
<211> 4
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<220>
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peptide

<400> 73
Asp Arg Ala Asn

1

<210> 74
<211> 4
<212> PRT
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<400> 74
Asp Arg Ala Asn
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<210> 75
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Arg Ser Gln Asp
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<210> 76
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peptide

<400> 76
Gln Val Gly His
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<210> 77
<211> 4
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D

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Zinc finger
peptide

<400> 77

Gln Leu Ala Thr
1

<210> 78

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Zinc finger
peptide

<400> 78

Thr Ser Gln Ala
1

<210> 79

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Zinc finger
peptide

<400> 79

Thr Ser Ala Ser
1

<210> 80

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Zinc finger
peptide

<400> 80
Leu Ala Gln Thr
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<210> 81
<211> 4
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<213> Artificial Sequence

<220>
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<400> 81
Arg Ser Arg Asp
1

<210> 82
<211> 4
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Zinc finger
peptide

<400> 82
Arg Leu Arg Asp
1

<210> 83
<211> 4
<212> PRT
<213> Artificial Sequence

<220>
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peptide

<400> 83
His Leu Ala Thr
1

<210> 84

<211> 4
<212> PRT
<213> Artificial Sequence

<220>
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peptide

<400> 84
His Leu Thr Thr
1

<210> 85
<211> 4
<212> PRT
<213> Artificial Sequence

<220>
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peptide

<400> 85
Val Gly His His
1

<210> 86
<211> 4
<212> PRT
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<220>
<223> Description of Artificial Sequence: Zinc finger
peptide

<400> 86
His Pro Ala Thr
1

<210> 87
<211> 4
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<220>
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peptide

<400> 87

His Pro Ala Asn

1

<210> 88

<211> 4

<212> PRT

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<220>

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peptide

<400> 88

His His Ser Asn

1

<210> 89

<211> 4

<212> PRT

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<223> Description of Artificial Sequence: Zinc finger
peptide

<400> 89

Asp Ser Arg Ala

1

<210> 90

<211> 4

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<220>

<223> Description of Artificial Sequence: Zinc finger
peptide

<400> 90

Lys Ser Ser Asp

1

<210> 91
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peptide

<400> 91
Ser Ser Ser Asp
1

<210> 92
<211> 4
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<220>
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peptide

<400> 92
Arg Ser His Asp
1

<210> 93
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<220>
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peptide

<400> 93
Arg Ser Ser Tyr
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<210> 94
<211> 4
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<220>
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peptide

<400> 94
Arg Ser Ser Ser
1

<210> 95
<211> 4
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<220>
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peptide

<400> 95
Arg Lys Thr Asp
1

<210> 96
<211> 4
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<220>
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peptide

<400> 96
Gln Ile Ser Thr
1

<210> 97
<211> 4
<212> PRT
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<220>
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peptide

<400> 97
Gln Ile Gly Ala

1

<210> 98
<211> 4
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<220>
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peptide

<400> 98
Gln Tyr Ser Thr
1

<210> 99
<211> 4
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Zinc finger
peptide

<400> 99
Gln Ser Ala Ser
1

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